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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
AITEICATION NO.	TIENG DATE	PIRST NAMED INVENTOR	ATTORNET DOCKET NO.	CONFIRMATION NO.
10/781,426	02/18/2004	David J. Jorgenson	P-8050.05	3045
27581	7590 10/25/2006		EXAM	INER
MEDTRONI 710 MEDTRO	•		HOLMES, REX R	
	JIS, MN 55432-9924		ART UNIT	PAPER NUMBER
			3762	
			DATE MAILED: 10/25/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/781,426	JORGENSON ET AL.			
Office Action Summary	Examiner	Art Unit			
	Rex Holmes	3762			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONED	ely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 05 Se	eptember 2006.				
•	<u> </u>				
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 4-9,11,12,15 and 16 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-3,10,13,14 and 17-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 2/18/2004 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Example 11) The oath or declaration is objected to by the Example 11.	accepted or b) objected to by the drawing (s) be held in abeyance. See on is required if the drawing (s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No Id in this National Stage			
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 02/18/2004	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

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DETAILED ACTION

Election/Restrictions

- 1. Claims 4-9, 11-12 and 15-16 withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 09/05/2006.
- 2. Applicant's election with traverse of Embodiment 1 of Group I, with claims 1 and 3 readable thereon, and Embodiment 10 of Group II and Embodiment 11 of Group III with claims 13 and 14 readable thereon, in the reply filed on 09/05/2006 is acknowledged. The traversal is on the ground(s) that the new claim 17 renders the restriction moot. This is not found persuasive because the addition of claim 17, which claims all of the embodiments of Group I, does not correct that fact that the application is directed to multiple patentably distinct species. There is clearly a patentable difference between the species as claimed and there would be a serious burden on the examiner if restriction were not required. For example each of the embodiments of Group I, require different sensors and programs to compute and determine each of the embodiments.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3, 17-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Cinbis et al. (U.S. Pat. 5,897,577 hereinafter "Cinbis").

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4. Regarding claims 1-3 and 17-18, Cinbis discloses a pacing lead impedance monitoring circuit for use in an implantable medical device designed to collect lead impedance data (Col. 5, 56-65), stimulation threshold data (Col. 2, II. 21-32), and other data that may be non-physiological data (Col. 8, II. 8-16). Cinbis further discloses that once it is determined that the leads are no longer functional a signal is created to indicate the status (Col. 9, II. 5-9).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made:
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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- 7. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cinbis et al. (U.S. Pat. 5,897,577 hereinafter "Cinbis") as applied to claim 1 above, and further in view of Juran et al. (U.S. Pat. 6,016,447 hereinafter "Juran").
- 8. Regarding claim 10, Cinbis discloses the lead status monitoring system as discussed in detail above, but does not disclose a time from implant source. However, Juran discloses a pacemaker that includes a time from implant source and states that the device may use the implant time to trigger various therapy programs automatically. (Col. 4, II. 41-49 & Col. 5, II. 50-54). It would have been obvious to one having ordinary skill in the art at the time the invention was made have modified the lead status monitoring system as taught by Cinbis with the time from implant source as disclosed by Juran in order to keep track of the time since implant to determine time decay and to base and automatically adjust the pacing based on pre-measured decay.
- 9. Claims 13-14 and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cinbis as applied to claim 2 above, and further in view of Dutcher et al. (U.S. Pat. 4,140,131 hereinafter "Dutcher").
- 10. Regarding claims 13-14 and 19-20, Cinbis discloses the lead status monitoring system as discussed in detail above, but does not explicitly disclose that finds a biological interface issue, explicitly a myocardial perforation. However, Dutcher discloses a stimulation-warning device where impedance level detectors determine lead rupture (Col. 6, II. 14-22; Fig. 1A, 18). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified he lead status monitoring system as taught by Cinbis with the rupture detection system as

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taught by Dutcher in order to determine lead failure by determining the proper placement of the leads before application of the stimulation.

Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Prutchi et al. (U.S. Pat. 6,141,585) discloses the use of the impedance to characterize tissue interfaces.
 - b. Cinbis et al. (U.S. Pat. 5,897,577) discloses a lead impedance status monitor.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rex Holmes whose telephone number is 571-272-8827. The examiner can normally be reached on M-F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on 571-272-4955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

Rex Holmes

George Evanisko

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Primary Examiner

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